

Exhibit B

Clean Version of The Pending Claims-U.S. Patent Application Ser. No. 10/020,080

1 (amended). A genetically engineered mammalian cell that has been mutated by a process comprising the insertion of a recombinantly manipulated polynucleotide sequence into a gene in said genetically engineered mammalian cell wherein said gene is identifiable as corresponding to SEQ ID NO:294.

2. The genetically engineered mammalian cell of Claim 1, wherein said cell is murine.

3. A cell according to Claim 2, wherein said cell is an embryonic stem cell.

4. The genetically engineered mammalian cell of Claim 1, wherein said polynucleotide sequence is present on a viral vector.

5. A cell according to Claim 4, wherein said viral vector is a retroviral vector.

6. A cell according to Claim 4, wherein said viral vector additionally comprises regions of targeting DNA that facilitate gene targeting by homologous recombination.

7 (amended). An isolated murine embryonic stem cell line comprising an engineered retroviral gene trap vector in at least one gene comprising a polynucleotide sequence identifiable as encoding SEQ ID NO:294.